

Tenn-Cop 4E

DATE PREPARED December 27, 1995

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT IDENTIFICATION**

Product Name(s): Tenn-Cop 4E  
Synonym (s): Citcop 4E

**HAZARD CLASSIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)**

NFPA: HEALTH-2 FIRE-3 REACTIVITY-0  
HMIS: HEALTH-2 FIRE-3 REACTIVITY-0

**MANUFACTURER**

Company Name: Griffin Corporation  
Address: PO Box 1847, Rocky Ford Road  
Valdosta, GA 31603-1847  
Emergency Phone #: (800) 237 1854  
CHEMTREC: (800) 424 9300

**2. COMPOSITION/ INFORMATION ON INGREDIENTS**

Component Name	% by Wt.	CAS#	ACGIH (TLV)	OSHA (TWA)	STEL
Copper Salts of Fatty & Rosin Acids	48.0	61789-22-8	1 mg/m <sup>3</sup> *	1 mg/m <sup>3</sup> *	none estab
Xylene range aromatic petroleum solvent	42.0	1330-20-7	435 mg/m <sup>3</sup>	435 mg/m <sup>3</sup>	655 mg/m <sup>3</sup>

Components not precisely identified are proprietary or not hazardous

\* As copper dusts or mists (CAS # 7440-50-8).

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Product is flammable. It is also irritating to the eyes and skin and is a skin sensitizer.

**POTENTIAL HEALTH EFFECTS**

**Inhalation:** May cause irritation of the mucous membranes. Exposure to copper fumes may result in metallic taste, nausea, vomiting, and metal fume fever with chills, fever, aching muscles, dry throat, and headache.

**Eye Irritation:** May be irritating to the eyes, but is reversible.

**Skin Irritation:** Slight skin irritant. Excessive exposure, especially if prolonged, may produce skin irritation. Repeated exposure may cause allergic contact dermatitis.

**Ingestion:** Ingestion of copper salts may result in irritation of the gastrointestinal tract, nausea, vomiting, salivation, gastric pain, hemorrhagic gastritis, diarrhea, capillary damage, liver and kidney damage, and central nervous system stimulation followed by depression.

Tenn-Cop 4E

DATE PREPARED December 27, 1995

## Hazards Identification continued.

Ingestion continued: ✓ Jaundice, pain in the liver, and hemolytic anemia have been reported following acute human poisonings

Chronic: None known

**4. FIRST AID MEASURES**

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get professional medical attention immediately.

Eye Contact: Hold eyelids open and flush with water, until no evidence of chemical remains (at least 15 - 20 minutes). Get professional medical attention immediately.

Skin Contact: Remove contaminated clothing and shoes. Wash with plenty of soap and water for 15-20 minutes until no evidence of chemical remains. Get professional medical attention immediately.

Ingestion: Do not induce vomiting. Get professional medical attention immediately.

Note to Physician: Product contains aromatic petroleum solvent, treat accordingly

**5. FIRE FIGHTING MEASURES**

Flash Point & Method: 94-96°F closed cup, 149°F Penske-Martyn TAG open cup

Flammable Limits: Not determined

Autoignition Temperature: Not determined

**FIRE FIGHTING HAZARDS & PROCEDURES**

General Hazard: No unusual fire or explosion hazards known other than product is flammable. Heat may cause drums to rupture.

Extinguishing Media: Carbon dioxide, sand, dry chemical, or other media used for petroleum fires. Water emulsifies product making clean-up difficult.

Fire Fighting Instructions: Product easily emulsifies in water resulting in slick floors and making clean-up difficult. Product is slick and sticky.

Fire Fighting Equipment: Wear protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products: Not available

**6. ACCIDENTAL RELEASE MEASURES**

Wear protective clothing. Cover spill with absorbent material such as sweeping compound or lime. Sweep up and place in an appropriate chemical waste container for disposal.

Tonn-Cop 4E

DATE PREPARED: December 27, 1995

**7. HANDLING AND STORAGE**

Storage Temperature:	Store above 32°F.
General Information:	Store in a clean, dry area. Keep this material out of the reach of children

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION****PESTICIDE APPLICATORS & WORKERS**

These workers must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170

**MANUFACTURING, COMMERCIAL BLENDING, & PACKAGING WORKERS**

Ventilation	No special ventilation requirements are known necessary Product should remain in unopened original container until used Product is usually used outdoors. Do not intentionally breathe vapors.
Respiratory Protection	None known necessary
Eye Protection	Wear protective eyewear to prevent contact with this substance
Protective Clothing	None known to be necessary, but gloves may be worn when handling product Product easily stains clothing but may be removed with mineral spirits prior to dry cleaning

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Not determined
Vapor Density (Air=1)	Not determined
Specific Gravity	0.974
Solubility in Water (% by wt.).	Emulsifiable in water - wide range %
pH (1% solution.)	Neutral
Boiling Point (760 mm Hg)	200-212°F
Melting Point:	Still liquid down to -67°F
Odor	Petroleum solvent odor
Color	Dark green
Physical State	Liquid

**10. STABILITY AND REACTIVITY**

General	This material is stable under normal conditions
Incompatible Materials	None known
Conditions to Avoid:	Excessive heat
Hazardous Decomposition.	None at normal process temperatures and pressures. On combustion, copper, CO <sub>2</sub> and water would form
Hazardous Polymerization	Will not occur

Tenn-Cop 4E

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**11. TOXICOLOGICAL INFORMATION****ACUTE**

Inhalation: Exposure to 206.7 mg/L caused no adverse effects  
Eye Irritation: Eye irritation scores: 0 at 48 and 72 hours  
Skin Irritation: Skin irritant and sensitizer. Primary skin irritation index 2.50  
Skin Absorption: Not determined  
Ingestion: Oral LD<sub>50</sub> between 1000 and 2000 mg/kg (rats)

**CHRONIC**

Product is not listed by the National Toxicity Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances as a carcinogen or potential carcinogen

Special Health Effects

None known

**12. ECOLOGICAL INFORMATION****ECOTOXICITY**

Test Type	Species	Value
Aquatic EC <sub>50</sub>	Pinfish	4.9 ppm @ 24 hrs; 1.8 ppm @ 48 hrs

**13. DISPOSAL CONSIDERATIONS**

Comply with appropriate disposal regulations. Landfill solids at permitted sites. Use registered transporters.

**14. TRANSPORT INFORMATION**

Department of Transportation (DOT)/International Air Transport Association (IATA).

Classification: Xylenes, Solution  
Class: 3  
UN Number: UN 1307  
Packing Group: III

International Maritime Organization (IMO)

Classification: Xylenes, Solution  
Class: 3.3  
UN Number: UN 1307  
Packing Group: III  
Flash Point: 34.4 - 35.6 °C

**15. REGULATORY INFORMATION****OSHA**

This product is considered hazardous under the OSHA Hazardous Communication Standard (29 CFR 1910.1200).

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## Regulatory Information continued:

TSCA:	All product components are on the TSCA Chemical Inventory.
CERCLA:	Releases of a component of this material (metallic copper and xylene) to air, land, or water are reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
RCRA:	When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is listed in 40 CFR 261.33.
SARA TITLE III 311/312 Hazard Categories:	This product is a hazardous chemical under 29 CFR 1910.1200 and is categorized as an acute health hazard and flammable.
313 Reportable Ingredients:	This product does contain a percentage of metallic copper (CAS 7440-50-8) and xylene which are listed in Section 313 above de minimis concentrations.

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## 16. OTHER INFORMATION

## REVISION SUMMARY

This MSDS has been created into the standard Griffin Corporation ANSI Z400.1 compliant format.

The information in this MSDS relates to this specific material. It may not be valid for this material if used in combination with any other materials or in any process. It is the users' responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.